EXECUTIVE ORDER U-U-001-0787-1 New Off-Road Small Spark-Ignition Engines at or Below 19 Kilowatts

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-14-012:

IT IS ORDERED AND RESOLVED: That the following engine and emission control systems produced by the manufacturer are certified for use in small off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY		DISPLACEMENT (cc)	ENGINE CLASS		FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)		
2017	HHN	(S.1631AB	163	4-stroke, >8	0 cc - <225 cc	Gasoline		
DURABILITY HOURS			PECIAL FEATURES SION CONTROL SYS		TYPICAL EQUIPMENT APPLICATION			
500	500		EM	Walk-Behind Lawnmower, Compressor, Pump, Pressure Washer, Generator Set, Tiller				
ENGINE CODES/MODELS (rated power in kilowatt, kW)		See Attachment						
EGR=exhaust	t gas recirc	ulation AIR=seco	ondary air injection PAIR≃r	pulsed AIR MFI=	multi port fuel injec	varm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S tion SFI=sequential MFI TBI=throttle body fuel injection x)=in series ECM=engine control module		

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx), carbon monoxide (CO), and particulate matter (PM) emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2403(b)), and certification emission levels for this engine family in grams per kilowatt-hour (g/kW-hr). Engines within this engine family shall have closed crankcases in conformance with Section 1054.115(a) of the "California Exhaust Emission Standards and Test Procedures for New 2013 and Later Small Off-Road Engines," adopted October 25, 2012.

*=not applicable	HC+NOx (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)
STANDARD	10.0	549	*
FAMILY EMISSION LEVEL	9.9	*	*
CERTIFICATION LEVEL	8.2	382	*

BE IT FURTHER RESOLVED: That the family emission level(s) (FELs), as applicable, is an emission limit declared by the manufacturer for use in the averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2403(e)(1) and 2407(a).

BE IT FURTHER RESOLVED: That for the listed engines, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2404 (emission control labels) and 13 CCR Sections 2405 and 2406 (emission control system warranty).

BE IT FURTHER RESOLVED: That the listed engine models are conditionally certified pending the submission of additional confirmatory emissions test data demonstrating compliance with emission standards in all allowable adjustable parameter settings. The manufacturer is required to submit the data by July 5, 2011. Failure to adequately demonstrate compliance by the above specified date shall be cause for the Air Resources Board to revoke this Executive Order. Engines introduced into commerce under the revoked Executive Order shall be deemed uncertified, and the manufacturer may be subject to enforcement actions.

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Quarterly reports of engines produced in this engine family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

This Executive Order hereby supersedes Executive Order U-U-001-0787 dated September 22, 2016.

Executed at El Monte, California on this _____ day of April 2017.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Attachment - page 1 of L

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Model Year:

Engine Family:

2017

Manufacturer: Honda Motor Co., Ltd.

ILINIXO 4004 A.D.

HHNXS.1631AB

Issued:

6/21/2016

Revised: 3/24/2017

E.O. Number: U-U-001-0787-1

Small Off-Road Engine Model Summary Form

Units for Table: kW

Worst Case?	Decianotion	48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated To	55. orque Speed (RPM)	56. Emiss Control Sys
Х	H1FJ01B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	H1FJ02B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	H1FJ0200R B	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	H1FJ03B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
a Wayne a an	H1FJ04B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
THE REAL PROPERTY.	H1FJ05B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
pers v s res	H1FJ06B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	H1FJ07B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	H1FJ0800R B	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	H1FJ09B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
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6/21/2016

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Model Year: Manufacturer:

Engine Family:

2017

Honda Motor Co.,Ltd. HHNXS.1631AB

E.O. Number: 4-4-001-0787-1

Small Off-Road Engine Model Summary Form

Units for Table: kw

Worst Case?	47. Model Designation	48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated 1 Torque	55 Forque Speed (RPM)	56. Emiss Control Sys
	H1FJ10B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	H1FJ11B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	H1FJ12L1-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
The state of the second st	H1FJ0100R B	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	H1FJ14B2-C	50-State	163	68.0/45.0	18° BTDC	3.6	3600	10.3 N.m	2500	EM
	H1FJ15B2-C	50-State	163	68.0/45.0	18° BTDC	3.5	3600	9.9 N.m	2500	EM
,	H1FJ16B2-C	50-State	163	68.0/45.0	18° BTDC	3.5	3600	9.9 N.m	2500	EM
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